Sample 6: File Link

Task: Find both the name and type of the yacht in which a customer sailed on a cruise starting on March 9 1991. the customer is very tall and remembers that the yacht had head room of more than 1m95cm.
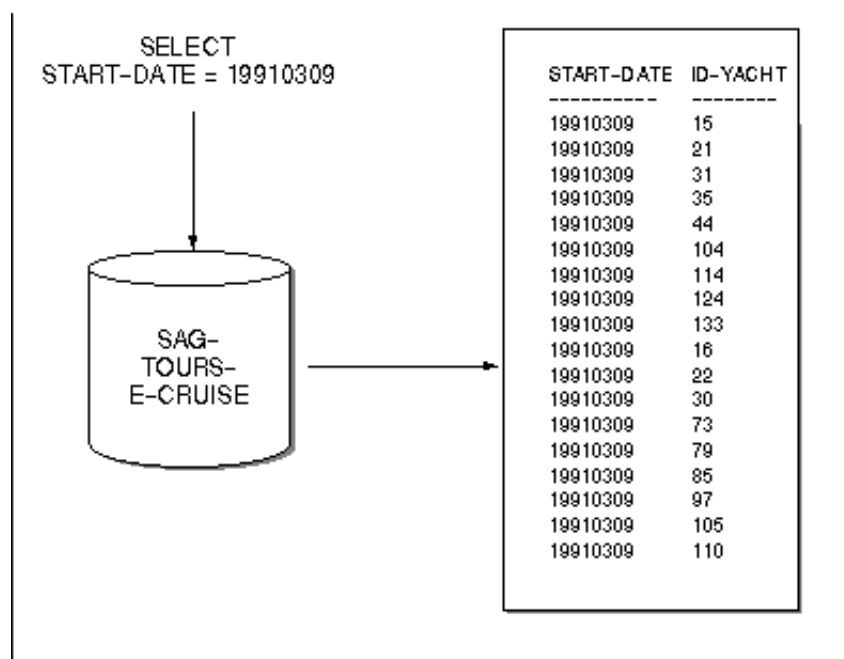
Information about cruise starting dates is stored in the fileSAG-TOURS-E-CRUISE. Yacht names and technical specifications are stored in the file SAG-TOURS-E-YACHT. Because you need information from two files, you must link them using theINCLUDE command.

For further information on linking files, seeINCLUDE command and What is File Linking? in Files in *Super Natural User's Guide*.

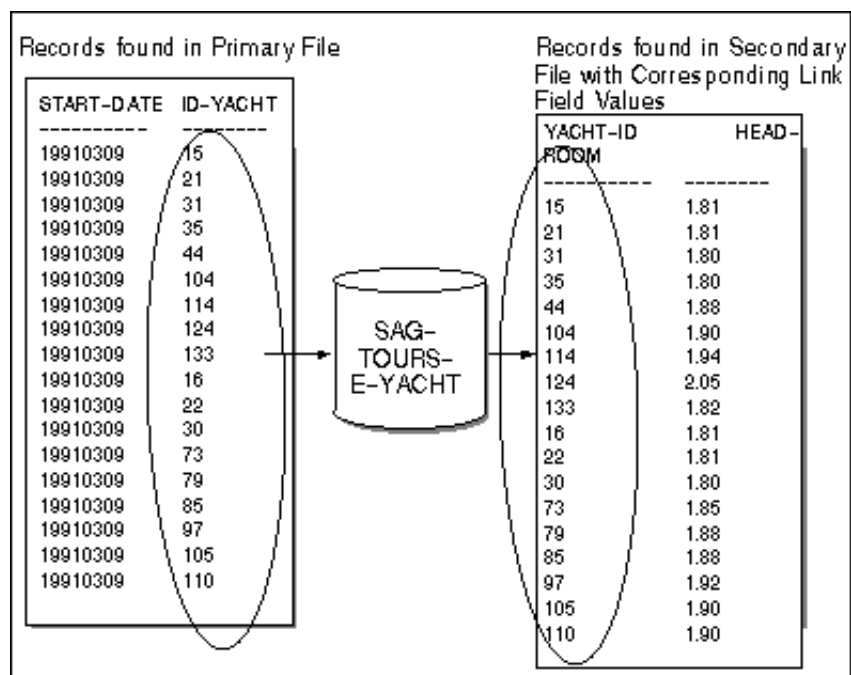Super Natural searches the primary and secondary files as follows when the transaction is run:

1.

   A search is made in the SAG-TOURS-E-CRUISE file for all records which meet the selection criterion START-DATE = 19910309. The following records are found:

1.
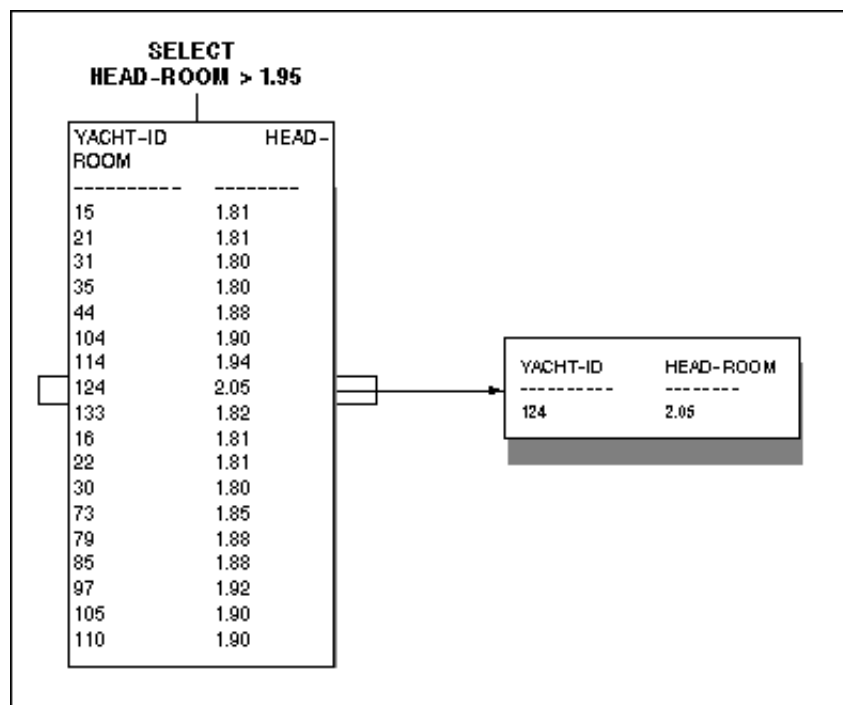
   When a record is found in the primary file, Super Natural takes the value of its link field (ID-YACHT) and searches the secondary file for records whose link field (YACHT-ID) has the same value. The following records are found:

1.

The selection criterion HEAD-ROOM > 1.95 is applied to the records found in the secondary file. The following record is found.

Transaction Specification

Primary File	SAG-TOURS-E-CRUISE
Link field in primary file	ID-YACHT
Secondary File	SAG-TOURS-E-YACHT
Link field in secondary file	YACHT-ID
Selection Criteria	START-DATE = 19910309 AND HEAD-ROOM > 1.95
Display fields	1: YACHT-NAME 2: YACHT TYPE 3: START-DATE 4:HEAD-ROOM

This section covers the following topics:

-

    Create the Transaction SAMPLE6

Create the Transaction SAMPLE6

▶ To Add a Transaction

1. Issue the ADD TRANSACTION SAMPLE6 command.

    The Add Transaction window appears.

2. Type "File Link" in theDescription field (optional).

▶ To Choose a Primary File

The report requires data from the primary fileSAG-TOURS-E-CRUISE.

1. Type SAG-TOURS-E-CRUISE in the File Name field.

2. Press Enter.

    The Worksheet appears.

▶ To Choose Secondary File

1. Issue the INCLUDE command.

    The Include Files window appears.

2. Enter SAG-TOURS-E-YACHT in the Secondary File field. You can also use theAsterisk (*) List function.

```
 17:31                    ***** Super Natural *****              1998-05-13
 SAMPLE6                        - Worksheet -                        SN3011

 Ref DB      Field Name    +-------------------Include Files-------------------+
 BE          _____ !                                                   !
 BF          _____ ! Primary File ..... SAG-TOURS-E-CRUISE_____ !
 BG          _____ ! Secondary File ... sag-tours-e-yacht_____ !
 BH          _____ !                                                   !
 BI          _____ ! Add Lookup File .. _____ !
 BJ          _____ ! Process Lookups .. _                              !
 BK          _____ !                                                   !
 BL          _____ +---------------------------------------------------+
 BM          _____  ___  ___  ___  ___  ___  ___
 BN          _____  ___  ___  ___  ___  ___  ___
 BO          _____  ___  ___  ___  ___  ___  ___
 BP          _____  ___  ___  ___  ___  ___  ___
 BQ          _____  ___  ___  ___  ___  ___  ___
 BR          _____  ___  ___  ___  ___  ___  ___


 Fill in required definitions
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit              Flip                                  Canc
```

The Define File Link window appears.

3. Type ID-YACHT in the Link Field in Primary File field.

4. Type YACHT-ID in the Link Field in Secondary File field.

```
 17:31                    ***** Super Natural *****              1998-05-13
 SAMPLE6                        - Worksheet -                        SN3011

 Ref DB      Field Name    +-------------- +----------Define File Link----------+
 BE          _____ !              !                                     !
 BF          _____ ! Primary File . ! Primary File                      !
 BG          _____ ! Secondary File !   SAG-TOURS-E-CRUISE              !
 BH          _____ !               ! Link field in primary file         !
 BI          _____ ! Add Lookup Fil !   id-yacht_____ !
 BJ          _____ ! Process Lookup ! From position .. ...              !
 BK          _____ !               !   to position .. ...              !
 BL          _____ +-------------- !                                   !
 BM          _____ ! Secondary File                 !
 BN          _____ !   SAG-TOURS-E-YACHT            !
 BO          _____ ! Link field in secondary file   !
 BP          _____ !   yacht-id_____ !
 BQ          _____ !                                 !
 BR          _____ +---------------------------------+
```

The fields ID-YACHT andYACHT-ID are used as link fields because they both have the format N8 and contain comparable data. You can also use the Asterisk (*) List function to review the field list for each file.

5. Press Enter.

The Define File Link window closes.

6. Press Enter.

   The Include Files window closes.

▶ To Choose Fields

The report requires data stored in the fieldsYACHT-NAME, YACHT-TYPE,START-DATE and HEAD-ROOM.

- Choose the fields as described in Step 3 of **Sample 1**.

▶ To Determine Display Sequence for Horizontal Output

1. Type " 1" in the Sequence column next to the fieldYACHT-NAME.

2. Type "2" in the Sequence column next to the fieldYACHT-TYPE.

3. Type "3" in the Sequence column next to the fieldSTART-DATE.

4. Type "4" in the Sequence column next to the fieldHEAD-ROOM.

   The Worksheet now looks like this:

```
 17:36                     ***** Super Natural *****              1998-05-13
 SAMPLE6                        - Worksheet -                        SN3011

 Ref DB    Field Name                        Seq   S/C  Func Def  Info Del
 AE  1K 2  START-DATE ....................   3__   ___  __   __   __   __
 AL  1K    ID-YACHT ......................   ___   ___  __   __   __   __
 BE  2K    YACHT-ID ......................   ___   ___  __   __   __   __
 BF  2K    YACHT-NAME ....................   1__   ___  __   __   __   __
 BK  2K    YACHT-TYPE ....................   2__   ___  __   __   __   __
 BQ  2     HEAD-ROOM .....................   4__   ___  __   __   __   __
 BS        _____     ___   ___  __   __   __   __
 BT        _____     ___   ___  __   __   __   __
 BU        _____     ___   ___  __   __   __   __
 BV        _____     ___   ___  __   __   __   __
 BW        _____     ___   ___  __   __   __   __
 BX        _____     ___   ___  __   __   __   __
 BY        _____     ___   ___  __   __   __   __
 BZ        _____     ___   ___  __   __   __   __



 Fill in required definitions
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Next  Exit  Field Incl  Flip  -     +          Sel   Run   Canc
```

   The "2"s in the DB column indicate that the fields they are next to are in the secondary file.

▶ To Define Selection Criteria

1. Issue the SELECTION command. You can also abbreviate this command to SEL.

   The Selection Editor appears.
   The report requires information on a cruise which started on 9 March 1991 and used a yacht which had more
   head room than 1.95m.

2. Enter START-DATE = 19910309 AND HEAD-ROOM > 1.95 in the editor area.

```
17:37                         ***** Super Natural *****              1998-05-13
SAMPLE6                            - Selection Editor -                 SNZUL-S


     1  < START-DATE = 19910309 AND HEAD-ROOM > 1.95                >     1
     2  <                                                           >     2
     3  <                                                           >     3
     4  <                                                           >     4
     5  <                                                           >     5
     6  <                                                           >     6
     7  <                                                           >     7
     8  <                                                           >     8
     9  <                                                           >     9
    10  <                                                           >    10
    11  <                                                           >    11
    12  <                                                           >    12
    13  <                                                           >    13
    14  <                                                           >    14
    15  <                                                           >    15


SELECTION lines are correct
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Next  Exit  Field Check Flip  -     +           Cont  Run   Canc
```

To Run the Transaction

1. Issue the RUN command.

   Because the headers of the fields you have chosen for display are too wide to fit on the standard page, the
   Report Line Length window appears.

2. Mark the option "Change to Report Type Vertical".

```
17:37                         ***** Super Natural *****              1998-05-13
SAMPLE6                            - Selection Editor -                 SNZUL-S

                         +---------------Report Line Length----------------+
     1  < START-DATE = 1 !                                                 !
     2  <                 ! The selected fields required a line size of .. 79 !
     3  <                 ! The field headers required a line size of .... 82 !
     4  <                 ! The available Online  line size at present ... 79 !
     5  <                 !                                                 !
     6  <                 !  -  Enlarge Available Line Size                !
     7  <                 !  x  Change to Report Type Vertical List        !
     8  <                 !  _  Truncate Headers                           !
     9  <                 !  _  Remove Excess Fields                       !
    10  <                 !  _  Remove Excess Fields and Truncate Headers  !
    11  <                 !  _  Modify Transaction                         !
    12  <                 !                                                 !
    13  <                 +-------------------------------------------------+
```

3. Press Enter.

   The report is generated. Part of the resulting report is shown below:

```
17:44:38   START-DATE = 19910309 AND HEAD-ROOM > 1.95          1998-05-13
ISAMPL6                                                        1


YACHT-NAME ..................... CASABLANCA
YACHT-TYPE ..................... PACIFIC 52
START-DATE ..................... 19910309
HEAD-ROOM ...................... 2.05

















Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Print Exit                 Flip         +    Posi  <    >    Canc
```